PATENT COOPERATION TREATY

From	the

INTERNATIONAL SEARCHING AUTHORITY

To: RIDOUT & MAYBEE LLP 2400 - One Queen Street East TORONTO, Ontario Canada, M5C 3B1

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing (day/month/year)

05 May 2005 (05-05-2005)

Applicant's or agent's file reference 43780-0003		FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/CA2004/002141	International filing d 16 December 2004 (late <i>(day/month/year)</i> 16-12-2004)	Priority date (day/month/year) 16 December 2003 (16-12-2003)
International Patent Classification (IPC (7) F21V 29/00, H01L 23/36,	(PC) or both national classifi F28D 5/00	ication and IPC	
Applicant AIMLEDS CORPORATION ET A	Ļ.		

	1. This opini	on contains indication	ons relating to the following items:
l	[X]	Box No. I	Basis of the opinion
l	[]	Box No. II	Priority
	[]	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	[X]	Box No. IV	Lack of unity of invention
	[X]	Box No. V	Reasoned statement under Rule 43bis.1(a)(I) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement.
۱	[].	Box No. VI	Certain documents cited
۱	[X]	Box No. VII	Certain defects in the international application
	[X]	Box No. VIII	Certain observations on the international application
	2. FURTHI	ER ACTION	eliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary If a demand for international preliminary examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec K1A 0C9 Authorized officer

Malgorzata Samborski (819) 956-0759

Facsimile No: 001(819)953-2476

International application No. PCT/CA2004/002141

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language which it was filed, unless otherwise indicated under this item.
[] This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
[] a sequence listing
[] table(s) related to the sequence listing
b. format of material
[] in written format
[] in computer readable form
c. time of filing/furnishing
[] contained in the international application as filed.
[] filed together with the international application in computer readable form.
[] furnished subsequently to this Authority for the purposes of search.
3. [] In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statement that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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Box No. IV Lack of unity of invention

Form PCT/ISA/237 (January 2004)

10/582829 iAP20Rec'd PCT/PTO 14 JUN 2006

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Box No. V

Reasoned statement under Rule 43bis.1(a)(I) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1, 4 to 20, 23 to 38	YES
	Claims	2,3,21,22	NO
Inventive step (IS)	Claims	1, 5, 7 to 20, 23, 26, 27, 28, 32, 33, 34, 36, 37, and 38	YES
	Claims	2, 3, 4, 6, 21, 22, 24, 25, 29, 30, 31, and 35	NO
Industrial applicability (IA)	Claims	1 to 38	YES
	Claims	None	NO

2. Citations and explanations:

D1 US6,481,874B2 published on Nov. 19, 2002

NOVELTY:

Claims 1, 4 to 20, and 23 to 38 are novel and involve inventive steps. The claims fulfil the requirements of Articles 33(2) and 33(3) of PCT. The prior art does not teach a light assembly comprising a concave mounting with indexing and a seat with indexer. Prior art also does not teach a light assembly with the seat forming a wedge for angling the light emitting device, or the mounting having an indexing channel or a plurality of collimators including lens attached to the front surface of the heat sink seat.

Claims 2, 3, 21, and 22 lack novelty under PCT Article 33(2) as being anticipated by Petroski (D1)

Petroski (D1) discloses a light emitting assembly comprising a thermally conductive mounting and a heat sink seat having a front and a rear surface. The seat is movably mounted to the surface. The shape of the seat corresponds to the shape of the mounting surface. The seat is configured to receive a light emitting device, which is a LED.

INVENTIVE STEP:

Claims 4, 6, 24, 25, 29, 30, 31, and 35 lack in inventive step under PCT Article 33(3) as being obvious in view of Petroski and common knowledge. Petroski (D1) discloses a light emitting assembly comprising a thermally conductive mounting and a heat sink seat having a front and a rear surface. The seat is movably mounted to the surface. The shape of the seat corresponds to the shape of the mounting surface. The seat is configured to receive a light emitting device, which is a LED. Specifying a brand of LED as being a Luxeon Star or the material being aluminum are design choices and cannot be considered inventive. The heat exchanger U-shaped tube with exchange fluid is a commonly known method of removing the heat from any given space or surface and applying it to remove heat from the assembly of Petrovski would have been obvious to a person skilled in the art facing a problem of removing heat from any space or object. The result of applying such a tube is obvious as well. As claims 2, 3, 21, and 22 lack novelty, they therefore lack inventive step as well.

INDUSTRIAL APPLICABILITY:

The subject matter of claims 1 to 38 is considered to be industrially applicable and thus fulfills the requirements of PCT Article 33(4).

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Box No. VII Certain defects in the international application

The following defects in the form or contents of the international applicatio have been note: fully supported by the description, are made :

The ABSTRACT is objected to under PCT Rule 8.1 (d) as containing a defect in the form:

Abstract does not include reference numbers of the components mentioned in said abstract and illustrated by the drawings included in the application.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made :

CLAIM 4 is objected to under PCT Article 6 as containing a defect in the form:

Claim 4 in ambiguous by including a Trademark as the properties of the product referenced by it may change from time to time.